

# Tetralogy of Fallot (TOF)

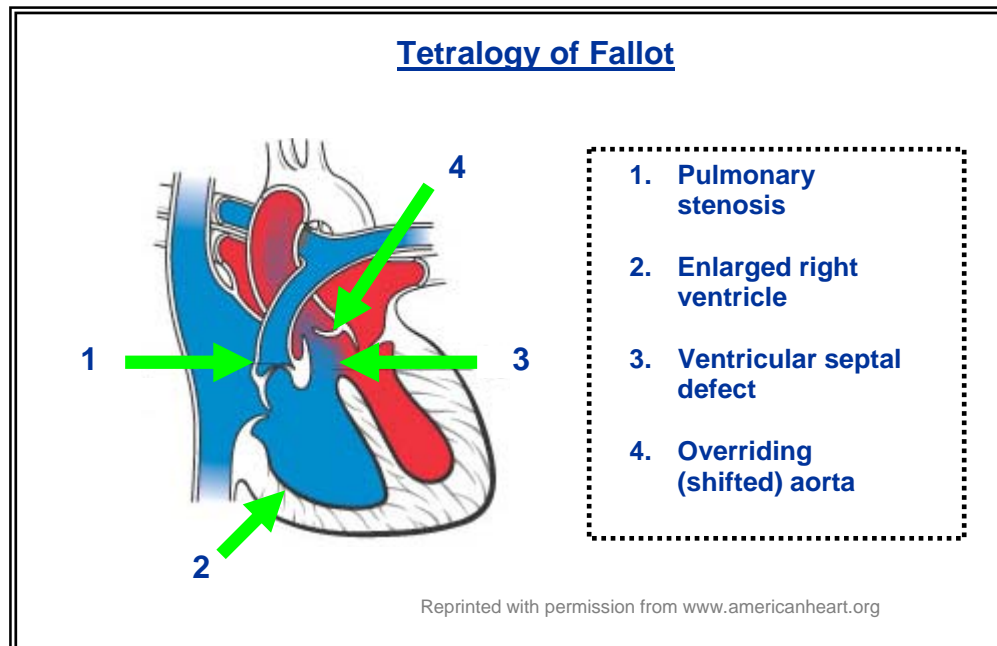
## What is Tetralogy of Fallot?

Tetralogy of Fallot (TOF) is a complex heart defect that has the four following components:

- 1) **Pulmonary stenosis** (PS; narrowing of the valve between the right ventricle and the lungs)
- 2) **Right ventricular hypertrophy** (enlargement of the right lower chamber of the heart)
- 3) A large **ventricular septal defect** (VSD; a hole between the wall dividing the two lower chambers of the heart)
- 4) An **overriding aorta** (enlarged aorta positioned over a VSD)

The combination of these four defects results in oxygen-poor blood being delivered to the body. Because oxygen-poor blood is being delivered to the body, these babies may have **cyanosis** (blue skin color, due to lack of oxygen).

Approximately 5 – 7% of babies with congenital (present at birth) heart defects have TOF.



## What causes TOF?

Currently, the exact cause of TOF is not known. Heredity likely plays a role in the development of all heart defects, meaning that if someone had a congenital heart defect, he or she has an increased chance of having a child with a heart defect.

## How is TOF treated?

Open heart surgery is required to correct TOF. Your child's doctor(s) will discuss appropriate treatment options with you.

## For more information

American Heart Association - <http://www.americanheart.org/presenter.jhtml?identifier=11105>

Cincinnati Children's Hospital Medical Center's Heart Center Encyclopedia –

<http://www.cincinnatichildrens.org/health/heart-encyclopedia/default.htm>

MedlinePlus - <http://www.nlm.nih.gov/medlineplus/congenitalheartdefects.html>

National Heart Lung and Blood Institute - [http://www.nhlbi.nih.gov/health/dci/Diseases/chd/chd\\_what.html](http://www.nhlbi.nih.gov/health/dci/Diseases/chd/chd_what.html)

**Sources:** Cincinnati Children's Hospital, American Heart Association